

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/391,781	09/08/1999	GEORGE W. PALMER	99CR107/KE	9067	
7.	590 12/09/2002				
ROCKWELL COLLINS INC ATTENTION KYLE EPPELE 400 COLLINS ROAD NE			EXAMINER		
			HAILU, TADESSE		
CEDAR RAPIDS, IA 52498			ART UNIT	PAPER NUMBER	
			2173		
			DATE MAILED: 12/09/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.



Application No. 09/391,781

Applicant(s)

George W. Palmer et al.

Examiner

Office Action Summary

Tadesse Hailu

Art Unit 2173



	The MAILING DATE of this communication ap	pears on the cover sh	eet with	the correspondence address		
Period f	for Reply					
	ORTENED STATUTORY PERIOD FOR REPLY IS MAILING DATE OF THIS COMMUNICATION.	_ MONTH(S) FROM				
	ions of time may be available under the provisions of 37 CFR 1.130 g date of this communication.	8 (a). In no event, however, r	may a reply	be timely filed after SIX (6) MONTHS from the		
- If the p - If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period w to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ill apply and will expire SIX (6), cause the application to beco	MONTHS (from the mailing date of this communication. ONED (35 U.S.C. § 133).		
Status						
1)[汉	Responsive to communication(s) filed on Oct	24, 2002				
2a) 🗌	This action is FINAL . 2b) 💢 The	his action is non-fina	l.			
3) 🗌	Since this application is in condition for allow closed in accordance with the practice under	· ·		• •		
Disposi	tion of Claims					
4) 💢	Claim(s) 1-4, 6-12, 14, 17, 18, 21, and 22			is/are pending in the application.		
4	1a) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 💢	Claim(s) 1-4, 6-12, 14, 17, 18, 21, and 22					
7) 🗆	Claim(s)	No.		is/are objected to.		
8) 🗌	Claims	are	e subject	to restriction and/or election requirement.		
	ation Papers					
9) 🗆	The specification is objected to by the Exami	ner.				
10)	The drawing(s) filed on	is/are a) 🗌 accepte	ed or b)	\square objected to by the Examiner.		
	Applicant may not request that any objection to	o the drawing(s) be he	eld in abe	yance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is	: a) □ a	approved b) \square disapproved by the Examiner.		
	If approved, corrected drawings are required in	reply to this Office ac	ction.			
12)	The oath or declaration is objected to by the	Examiner.				
Priority	under 35 U.S.C. §§ 119 and 120					
13)	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) 🗀	☐ All b)☐ Some* c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the price application from the International			eceived in this National Stage		
*S	ee the attached detailed Office action for a lis-	t of the certified cop	ies not r	eceived.		
14)	Acknowledgement is made of a claim for dor	nestic priority under	35 U.S.	C. § 119(e).		
a) [3					
15)∐	Acknowledgement is made of a claim for dor	nestic priority under	35 U.S.	C. §§ 120 and/or 121.		
Attachm						
	ntice of References Cited (PTO-892) Stice of Draftsperson's Patent Drawing Review (PTO-948)	<u> </u>	•	0-413) Paper No(s)		
	tt Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:						

DETAILED ACTION

1. This Office Action is in response to the CPA entered 10/24/2002 for the patent application (09/391,781).

Status of the claims

2. Claims 5, 13, 15, 16, 19, and 20 are canceled by the Applicant and claims 1-4, 6-12, 14, 17, 18, 21 and 22 are pending.

Claim Rejections - 35 U.S.C. § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless --
 - (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.
- 4. Claims 1-4, 6-12, 14, 17, 18, 21 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Briffe et al (6,112,141).

Briffe et al ("Briffe") relates generally to aircraft flight information and control system which permit simplified flight planning and navigation procedures, reduced cost, reduced pilot workload, and improved safety. Moreover, Briffe relates to an improved graphical oriented aircraft display and control interface. Briffe reads over the present claimed invention as follows:

In regard to claim 1, Briffe discloses an avionics system (Fig. 2). The system includes an avionics radio receiver (Fig. 2, #71); the system also includes a plurality of displays (16, 18, 20, and 22) coupled to said avionics receiver (71) (see Fig. 2); the system further includes an pedestal (14) (or operational system), coupled to said displays (Fig. 1, #14); the displays further includes a GUI (see Figs. 3, 5, 7, 9, etc) and a displayed cursor (21) to manipulate the displayed items (see Figs. 21, 22, 23, etc).

Furthermore, the present claim language reads "an avionics system comprising: wherein said graphical user interface returns a display shown on said display to a pre-existing display, without user input, upon a passage of time." The claim must be interpreted as an avionics system having at least the claimed limitations. therefore, the claim could include or encompass any equivalent limitations. The teaching disclosed by Briffe, i.e., a return to a pre-existing display after a button is pressed (col 23, lines 29-40) is considered equivalent teaching to the above claimed limitation.

In regard to claim 2, Briffe's pedestal (14) which includes a plurality of pilot controls, such as switch (38), keyboard (34), trackballs (44), etc. are used to manipulate data in a navigational system (col 5, lines 21-61).

In regard to claim 3, the system of Briffe discloses a plurality of multi-function displays (see Fig.1, #18, and #20).

In regard to claim 4, the system of Briffe discloses a communication radio receiver (col 7, lines 41-46).

In regard to claims 6, and 11, the system of Briffe discloses a GUI wherein the GUI includes a simultaneous window display, such as a simultaneous COM 1 and COM 2 radio frequency display (Fig. 17-20, col 20, lines 34-48).

In regard to claims 7 and 12, the system of Briffe discloses manually controlled (pedestal 14) interface. The GUI shown in Fig. 17-20 includes interactive controls, manually controlled push-button (504), rotary knob (506) swapping button (508). Activation of these controls invoke a predetermined screen display, such as activating button 504 of Fig. 17 results Fig. 18. ("a predetermined relationship") (col 23, lines 29-61, col 39, lines 52-63, col 45, lines 41-45).

In regard to claim 8, the system of Briffe discloses a unit of display located above each MFD 18, 20, and includes a screen (502), may be a touch-sensitive screen, interacting with the screen displays screen (502) in a pop-up or expanded view of a page or device managed (see Fig. 17, col 23, lines 29-67).

In regard to claim 9, as indicated in the rejection to claim 1, Briffe discloses an avionics system (Fig. 2). The system includes an avionics radio receiver (Fig. 2, #71); the system also includes a plurality of displays (16, 18, 20, and 22) coupled to said avionics receiver (71) (see Fig. 2); the displays further includes a GUI (see Figs. 3, 5, 7, 9, etc) and a displayed cursor (21) to manipulate the displayed items (see Figs. 21, 22, 23, etc); Briffe's GUI provides an expanded view of a page or device managed (see Fig. 17, col 23, lines 29-67).

In regard to claim 10, as indicated in the rejection to claim 1, the system of Briffe further discloses (also admitted by the Applicant) a return to a pre-existing display after a button is

pressed. Screen 502 is located above each MFD 18, 20, when activated it become a pop-up or expanded screen 502 (Fig. 17). Screen 502 can return back to its pre-existing display size (Fig. 1, col 23, lines 29-40)) either by clicking a symbol/button or by clicking on a blank area of the screen.

Page 5

In regard to claim 14, as indicated in the rejection to claim 1, Briffe discloses an avionics system (Fig. 2). The system includes an avionics radio receiver (Fig. 2, #71); the system also includes a plurality of displays (16, 18, 20, and 22) coupled to said avionics receiver (71) (see Fig. 2); the displays further includes a displayed cursor (21) and GUI for graphically manipulating a plurality of managed devices, such as a radio signals (see Figs. 3, 5, 7, 9, 21, 22, 23, etc). The system of Briffe further discloses (also admitted by the Applicant) a return to a pre-existing display after a button is pressed. Screen 502 is located above each MFD 18, 20, when activated it become a pop-up or expanded screen 502 (Fig. 17). Screen 502 can return back to its pre-existing display size (Fig. 1, col 23, lines 29-40)) either by clicking a symbol/button or by clicking on a blank area of the screen. The system of Briffe discloses a GUI wherein the GUI includes a simultaneous window display, such as a simultaneous COM 1 and COM 2 radio frequency display under screen (502) (col 20, lines 34-48).

In regard to claim 17, as indicated in rejection of claim 1, Briffe further discloses pedestal (14) (or operational system), coupled to said displays (16, 18, 20, and 22) for manipulating managed devices or pages (col 5, lines 21-61).

In regard to claim 18, the system of Briffe discloses a unit of display located above each MFD 18, 20, and includes a screen (502), may be a touch-sensitive screen, interacting with the screen displays screen (502) in a pop-up or expanded view of a page or device managed (see Fig. 17, col 23, lines 29-67).

In regard to claim 21, the claim includes subject matter of claims 1, and 12 and therefore are rejected under the same rationale.

In regard to claim 22, as indicated in the rejection of claim 8, the system of Briffe discloses a unit of display located above each MFD 18, 20, and includes a screen (502), may be a touch-sensitive screen, interacting with the screen displays screen (502) in a pop-up or expanded view of a page or device managed (see Fig. 17, col 23, lines 29-67).

Response to Arguments

5. Applicant's arguments filed 9/24/2002 have been fully considered but they are not persuasive. .

Applicant is arguing in his Remarks that "a graphical user interface returns a display shown on said display to a pre-existing display upon a passage of time" neither shown, suggested nor taught in Briffe et al. In contrast to the Applicant's argument the claim language reads "an avionics system <u>comprising:</u>", open-type transition phrase, thus, the claim could include any equivalent limitations. Thus, Briffe discloses the equivalent limitation (col 23, lines 29-40).

Application/Control Number: 09/391,781 Page 7

Art Unit: 2173

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner 6. should be directed to Tadesse Hailu, whose telephone number is (703) 306-2799. The Examiner can normally be reached on M-F from 10:00 - 7:30 ET. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, John Cabeca, can be reached at (703) 308-3116 Art Unit 2173 CPK 2-4A51

7. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

7adesse Hailu 12/02/2002

JOHN CABECA

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2100**